

Module specification

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Module Code	PSYON705
Module Title	Quantitative Research Methods
Level	7
Credit value	15
Faculty	FSLS
HECoS Code	100959
Cost Code	GAPS
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
MSc Psychology	Core
MSc Psychology with Educational Principles	Core
MSc Psychology with Forensic Principles	Core

Breakdown of module hours

Learning and teaching hours	15 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	15 hrs
Placement hours	0 hrs
Guided independent study hours	135 hrs
Module duration (Total hours)	150 hrs

Module aims

The aim of this module is to provide students with the knowledge and understanding to approach quantitative methods and analysis in psychology. Students will be presented with an overview of core topics and analysis techniques through structured tasks and lectures.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Critically appraise philosophical approaches to research methods & statistics and their implications for research practice
2	Critically evaluate the advantages and disadvantages of key research method approaches and designs in psychology
3	Select, identify, and apply a range of core data analysis techniques to appropriate data and research questions
4	Demonstrate ethical awareness and understanding in relation to psychological research

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Indicative assessment may include:

Assessment 1: Critical Appraisal of research methods used in a set journal article (1250 words)

Assessment 2: Coursework addressing a variety of data analysis techniques, reporting of results and interpretation (1250 words)

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1,2	Written Assignment	1250	50%	NA
2	3,4	Coursework	1250	50%	NA

Derogations

The minimum mark you need achieve for each module will be one of the following:

- 50%.



- A pass grade (normally only in place where an assessment is competency-based)

Learning and Teaching Strategies

The overall learning and teaching strategy will include adherence to the asynchronous elements of Active Learning Framework via a series of micro-lectures, directed reading and activities. There will be a mix of supporting materials along with directed study for students to complete as they work through the material and undertake the assessment tasks. The use of a range of digital tools within the virtual learning environment together with additional sources of reading will also be utilised to promote breadth and depth of learning.

Welsh Elements

In line with the University's Welsh Medium Scheme, students will be offered the opportunity to submit assessments through the medium of Welsh. This will be drawn to the attention of students through the student handbook.

For those students wishing to engage with the subject area via the medium of Welsh, additional resources will be made available via www.porth.ac.uk, which is the Coleg Cymraeg Cenedlaethol resource portal

Indicative Syllabus Outline

- Philosophical and Ethical Underpinnings in Psychological Research
- Quantitative Research Methods & Evidence appraisal
- Working with data
- General Linear Model I
- General Linear Model II
- Generalized Linear Model
- Systematic Literature Review

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Warne, R. T., (2017) *Statistics for the Social Sciences: A General Linear Approach*. Cambridge University Press.

Free, core resources

British Psychological Society (2014). Code of Human Research Ethics. BPS

British Psychological Society (2017). Ethics Guidelines for Internet-Mediated Research.

BPS

British Psychological Society (2018). BPS Code of Ethics and Conduct. BPS

Cuttler, C., Jhangiani, R. S., & Leighton, D.C. (2019). *Research methods in Psychology* [4th ed.]. Open Access

Other indicative reading

Journals

- Behavior Research Methods
- Research Methods in Medicine and Health Sciences
- International Journal of Quantitative and Qualitative Research Evaluation
- Educational and Psychological Measurement
- Cross-Cultural Research
- Journal of Empirical Research on Human Research Ethics
- Journal of Mixed Methods Research

Administrative Information

For office use only	
Initial approval date	June 2026
With effect from date	September 2026
Date and details of revision	
Version number	1